CLAIMS

- 1. A wax comprising a reaction product of:
 - (a) 30% to 45% of a C₆-C₁₂ linear dicarboxylic acid;
 - (b) 40% to 60% of a C₁₀-C₂₂ monocarboxylic acid; and
- (c) 12% to 20% of a diamine of formula H₂N(CH₂)_nNH₂, wherein n is an integer from 2 to 6.
- 2. The wax of claim 1 in which said C_6 - C_{12} linear dicarboxylic acid is a C_8 - C_{10} linear dicarboxylic acid, said C_{10} - C_{22} monocarboxylic acid is a C_{16} - C_{18} monocarboxylic acid, and n is 2 or 3.
- 3. The wax of claim 2 which is a reaction product of 32% to 40% of a C_{8} - C_{10} linear dicarboxylic acid, 43% to 53% of a C_{16} - C_{18} monocarboxylic acid, and 14% to 18% of said diamine.
- 4. The wax of claim 3 in which said C_8 - C_{10} linear dicarboxylic acid is a C_{10} linear dicarboxylic acid, said C_{16} - C_{18} monocarboxylic acid is a C_{18} monocarboxylic acid, and said diamine is ethylene diamine.
- 5. The wax of claim 4 which is a reaction product of 34% to 38% of a C₁₀ linear dicarboxylic acid, 46% to 50% of a C₁₈ monocarboxylic acid, and 15% to 17% of ethylene diamine.
- 6. The wax of claim 5 which is a reaction product of sebacic acid, stearic acid and ethylene diamine.
- 7. The wax of claim 1 in which a ratio of total number of equivalents of carboxylic acid reactants to total number of equivalents of amine reactants is from 0.97 to 1.06.

- 8. The wax of claim 7 in which said C_6 - C_{12} linear dicarboxylic acid contains a saturated alkylene group, said C_{10} - C_{22} monocarboxylic acid contains a saturated alkylene group; n is 2 or 3; and the ratio of total number of equivalents of carboxylic acid reactants to total number of equivalents of amine reactants is from 1.0 to 1.03.
- 9. The wax of claim 8 which is produced by first combining said C_6 - C_{12} linear dicarboxylic acid and said diamine, with sub-surface addition of the diamine, and then adding said C_{10} - C_{22} monocarboxylic acid.
- 10. The wax of claim 8 in which said $C_6 \cdot C_{12}$ linear dicarboxylic acid is sebacic acid, said $C_{10} \cdot C_{22}$ monocarboxylic acid is stearic acid and n is 2.